Meeting Minutes

Date | time 4/13/2016 2:00 PM | Location The Lands Council (TLC), Saranac Building, 25 West Main Ave, Spokane 2nd Floor Large Conference Room

Project: Mycelium PCB Research Attendees in person:

Conference Line:

Ex.6 Personal Privacy (PP)

Marcia Davis, City of Spokane (City)
Doug Greenlund, City of Spokane
Adrianne Pearson, City of Spokane
Heidi Montez, The Lands Council
Mike La Scuola, Spokane Health District
Aimee Navickis-Brasch, NB Stormwater
Engineering

Attendees on conference line:
Michelle Mullin, EPA Region 10
Philip Small, The Land Profile
Maureen Johnson, Certified Safety Professional

Meeting Minutes

The meeting opened with the attendees introducing themselves.

The city discussed their *goal and desired outcome* for the project: develop a natural treatment system for reducing PCBs in vactor waste in response to the Spokane River TMDL which specifies zero PCB discharge to the River.

Heidi provided an <u>overview of the experimental design and phase 1 timeline</u> (defined on the attachments sent out with the agenda).

The following are *comments discussed* during the meeting:

Vactor Waste Sterilization

- ☐ Heidi indicted she intended to sterilize some of the vactor waste during phase B1 of the study. The group discussed various methods for sterilization including using UV light and pressure cooking (at 250°F and 15psi). Concerns were expressed about the potential for gases to be released as well as how the PCB equilibrium/state might be effected during the pressure cooking process. Heidi indicated she was going to research other options for sterilizing the material however pressure cooking appeared to be the best option.
 - Lisa is helping Heidi investigate options for sterilization

Vactor Waste Collection and Storage

☐ All the vactor waste that will be used during this study will be collected prior to the study and stored in a refrigerator or walk in cooler. During the study, samples may also be frozen and submitted for testing at a later date (if needed).

	Heidi indicated she needs approximately 10 gallons of vactor waste for the entire study and that she would prefer drier samples. She also indicated that she needs a refrigerator to store the material during the study.
	Adrianne is locating a refrigerator for the study
	Methods for collecting composite samples of vactor waste were discussed specifically collecting samples for characterization (lab analysis) that are representative of what will be used during the study. Philip recommended an approach he uses called 'coning and quartering'. In addition, it was also recommended that the waste be thoroughly mixed (homogenized) before sample collection using methods that are similar to a concrete mixer. I Heidi will develop procedures for collecting and homogenizing the vactor waste from the decant facility. Aimee will contact the lab to determine the collection procedures for the samples that will be submitted for characterization. Then Heidi and Aimee will share the procedures with the city and coordinate a day/time for collecting the vactor waste.
	Lisa recommended that triplicate samples be submitted for characterization To reduce the likelihood of any modification to the PCB presence in the vactor waste, Michelle recommended that the material be stored following the procedures and container requirements identified in EPA method 1668 Heidi is investigating
Testing Methods for Characterizing Vactor Waste	
	Michelle inquired about which testing methods were going to be used to characterize the material. For consistency, it was recommended that the same standard testing methods defined in the QAPP for the Spokane River PCB TMDL Study also be used for this study whenever possible
	 The QAPP has been uploaded to the dropbox (see pages 36-38) The group discussed the types of parameters that should be tested (in addition to EPA 1668) to characterize the vactor waste. Suggestions included phosphorus, carbon, nutrients, and seed germination inhibition testing. Heidi will develop a list of parameters and Philip agreed to review/comment on the
_	list. Aimee will create a testing methods table that includes all the information needed for each parameter (i.e. standard methods, preservation, container, volume, etc.)
Ш	Adrianne indicated that funding for testing is limited for this part (phase 1) of the study. She recommended that only essential parameter be tested, specifically those which will help us understand how mycelium works in a laboratory setting. Adrianne will provide Heidi with a budget for testing
	Mike indicated that WSDOT has conducted a substantial amount of testing to characterize the vactor waste from the Pines Decant Facility that might be useful for this study. He recommended contacting Tammie Williams or Greg Lahti from WSDOT to obtain testing information and to find out how much vactor waste is disposed of each year at the facility. Aimee will contact Tammie or Greg and share any information with the group

<u>Was</u>	<u>ste Disposal</u>	
	Characterizing vactor waste properties before and after the study is important to determine if the material classification changes as a result of this study (which could change disposal requirements). For example, vactor waste at the WSDOT Pines decant facility is classified as solid waste. Hazardous constituents are defined on the Resource Conservation and Recovery Act (RCRA) list which is the primary environmental law governing disposal requirements. Need to develop a disposal protocol for research waste that contains PCBs Mike La Scuola indicated he would help with the draft protocol. Heidi and Aimee will setup a meeting with him	
<u>Lab Safety</u>		
	Need to develop safety procedures for all lab work, including disposal and treatment of PCBs in the lab (Maureen Johnson indicated she would help by reviewing/commenting on the draft procedures) Heidi will ask Maureen for suggestions on the procedures	
Research Testing Procedures		
	In support of documenting the procedures used during this study, Aimee requested that Heidi identify and outline all procedures. Aimee and Heidi will meet to discuss this further.	
<u>TAG</u>		
	Since there were serval members of the TAG who were not able to attend the meeting due to conflicts Aimee will send out a survey monkey to determine the best time/dates for the next meeting	
	Add Greg Lahti to the TAG. He is a WSDOT hydraulic engineer who could provide insight regarding the WSDOT Pines Decant Facility and WSDOT might also be interested in learning more about this study	
	 Aimee will ask Greg Lahti to join the TAG. Need a Mycology Specialist who would be willing to become a member of the TAG Aimee is investigating 	